

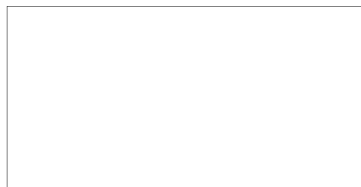
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NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER

**PHOTOGRAPHIC
INTERPRETATION
REPORT**

**THREE TROPOSCATTER AND MICROWAVE
COMMUNICATIONS FACILITIES IN THE
SAMARKAND AREA, USSR**



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THREE TROPOSCATTER AND MICROWAVE COMMUNICATIONS FACILITIES

IN THE SAMARKAND AREA, USSR

1. This report describes three communications facilities in the Samarkand area which contain a variety of antenna types serving troposcatter, microwave, and high frequency (HF) communications links.

2. The three facilities listed below were covered by high-resolution KEYHOLE photography of fair-to-good interpretability. Orientations of antennas were obtained wherever possible. Orientations for the TWIN DISH troposcatter antennas [redacted] and the R-60/120 parabolic dish antennas to within ± 5 degrees.

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a. Samarkand Troposcatter Station

39-39-51N 066-58-10E, BE None, [redacted]

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The facility (Figure 1), located in the center of Samarkand, USSR, contains two TWIN DISH troposcatter antennas with orientations [redacted] two FORK REST antennas with approximate orientations of 31/211 degrees and 54/234 degrees, one probable R-400 microwave tower, one unidentified mast, and one unidentified Yagi-type antenna.

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b. Samarkand Radio Communications and Troposcatter Station

39-41-53N 066-59-32E, [redacted]

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The facility (Figure 2), located 2.5 nautical miles (nm) northeast of Samarkand, USSR, contains two TWIN DISH troposcatter antennas with orientations of 222 degrees, one possible R-400 microwave antenna, six FORK REST antennas, at least nine horizontal dipole antennas, and six masts supporting unidentified antennas. Two building-mounted possible ONE EYE radars and two BAR LOCK radars are located 0.3 nm north-northwest of the communications area.

c. Samarkand AW Radar Facility

39-41-20N 067-02-10E, [redacted]

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The facility (Figure 3), located 3 nm south of Samarkand, USSR, contains two R-60/210 solid dish microwave antennas with orientations of 310 degrees and a tower with probable periscopic reflector elements. One ROCK CAKE/STONE CAKE radar and one FORK REST antenna were in a separate area, 0.25 nm south-east of the communications area. One BAR LOCK radar, one SQUAT EYE radar, and one FLAT FACE radar were in a second area, 0.27 nm east of the communications area.

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